

# IC Recorder

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Operating Instructions

**IC RECORDER**

ICD-PX820/PX820M/PX820D

## Owner's Record

The model number is located at the rear panel and the serial number is located inside the battery compartment. Record these numbers in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. ICD-PX820

Serial No. \_\_\_\_\_

**FOR UNITED STATES  
CUSTOMERS. NOT APPLICABLE  
IN CANADA, INCLUDING IN THE  
PROVINCE OF QUEBEC.  
POUR LES CONSOMMATEURS  
AUX ÉTATS-UNIS. NON  
APPLICABLE AU CANADA, Y  
COMPRIS LA PROVINCE DE  
QUÉBEC.**

## For the customers in the United States

The following FCC statement applies only to the version of this model manufactured for sale in the USA. Other versions may not comply with FCC technical regulations.

## INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in

accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have any questions about this product, you may call: Sony Customer Information Service Center 1-800-222-7669 or <http://www.sony.com/>

## Declaration of Conformity

Trade Name : SONY  
Model : ICD-PX820  
Responsible Party : Sony Electronics Inc.  
Address : 16530 Via Esprillo,  
San Diego, CA 92127 USA  
Telephone Number : 858-942-2230

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Notice for the customers in Canada



This Class B digital apparatus complies with Canadian ICES-003.

## Avertissement pour les utilisateurs au Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

- The recorded music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.
- Sony is not responsible for incomplete recording/downloading or damaged data due to problems of the IC recorder or computer.
- Depending on the types of the text and characters, the text shown on the IC recorder may not be displayed properly on device. This is due to:
  - The capacity of the connected IC recorder.
  - The IC recorder is not functioning normally.
  - Content information is written in the language or the character that is not supported by the IC recorder.

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- “LPEC” and  are registered trademarks of Sony Corporation.
- US and foreign patents licensed from Dolby Laboratories.

All other trademarks and registered trademarks are trademarks or registered trademarks of their respective holders. Furthermore, “™” and “®” are not mentioned in each case in this manual.

The “Digital Voice Editor” uses software modules as shown below:

Microsoft DirectX Runtime 9.0c

©2004 Microsoft Corporation. All Rights Reserved.

# Notice for users

Program © 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010  
Sony Corporation  
Documentation ©2010 Sony Corporation

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Sony Corporation reserves the right to make any modification to this manual or the information contained herein at any time without notice.

The software described herein may also be governed by the terms of a separate user license agreement.

- This software is for Windows and cannot be used for Macintosh.
- The supplied connecting cable is for the IC recorder ICD-PX820/PX820M/PX820D. You cannot connect other IC recorders.

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## Additional Information

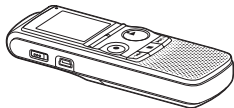
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# Step 1: Checking the Contents of the Package

### IC Recorder (1)

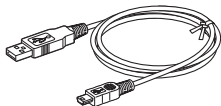


Remove the film on the display window before you use the IC recorder.

### LR03 (size AAA) alkaline batteries (2)



### USB connecting cable (1)



### Application Software, Digital Voice Editor (CD-ROM)

### Application Software, Dragon NaturallySpeaking® (DVD-ROM)\*

### Stereo headphones\* (1)

### Carrying pouch\* (1)

### Stereo microphone with shirt-clip\* (1)

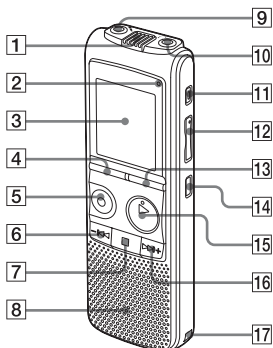
### Operating Instructions

\* The some of the software, stereo headphones, carrying pouch and stereo microphone with shirt-clip are supplied with some models in some regions only.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

## Index to parts and controls

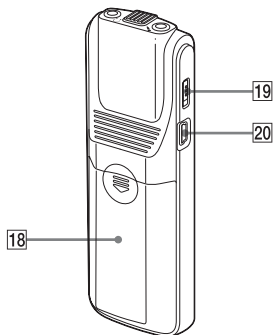
### Front



- 1 Built-in microphone
- 2 Operation indicator
- 3 Display window
- 4 DIVIDE button
- 5 ● REC/PAUSE button
- 6 ◀◀ (review/fast backward) button
- 7 ■ (stop) button
- 8 Speaker
- 9 🎧 (microphone) jack\*
- 10 🎧 (headphone) jack
- 11 ERASE button
- 12 VOL (volume)+\*/- button

- 13 FOLDER/MENU button
- 14 ↺ (repeat) A-B button
- 15 ▶ PLAY/STOP•ENTER button\*
- 16 ▶▶+ (cue/fast forward) button
- 17 Strap hole (A strap is not supplied.)

### Rear



- 18 Battery compartment
- 19 HOLD switch
- 20 📶 (USB) connector

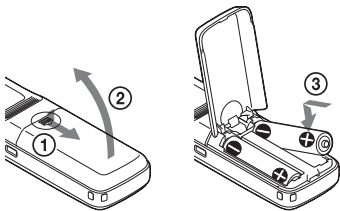
\* These buttons and the jack have a tactile dot.  
Use it as a reference point for operations, or  
to identify each terminal.



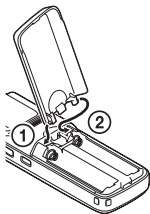
## Step 2: Preparing a Power Source

Remove the film on the display window before you use the IC recorder.

Slide and lift the battery compartment lid, insert LR03 (size AAA) alkaline batteries with correct polarity, and close the lid.



If the battery compartment lid is accidentally detached, attach it as illustrated.



### 💡 Tips

- When replacing the batteries, messages recorded or alarm settings are not erased even when you remove the batteries.
- When replacing the batteries, the clock continues moving for a certain period of time after you remove the batteries.

### 📌 Notes


- Do not use manganese batteries for this IC recorder.
- When replacing the batteries, be sure to replace both batteries with new ones.
- Do not charge dry batteries.
- When you are not going to use the IC recorder for a long time, remove the batteries to prevent damage from battery leakage and corrosion.

Clock setting display appears and the year section flashes when you insert batteries for the first time, or when you insert batteries after the IC recorder has been without batteries for a certain period of time. See “Setting the clock after preparing a power source” on page 12 to set the date and time.


## When to replace the batteries

The battery indicator in the display window shows the battery condition.

### Battery remain indication

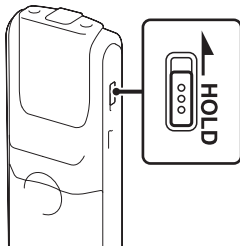
 : Replace the old batteries with new ones.



 : “LO BATT” flashes and the IC recorder will stop operation.

## Step 3: Turning the IC Recorder On

### Turning the power on



Slide the HOLD switch in the opposite direction from that of the arrow. The IC recorder is turned on, and “ACCESS” flashes.

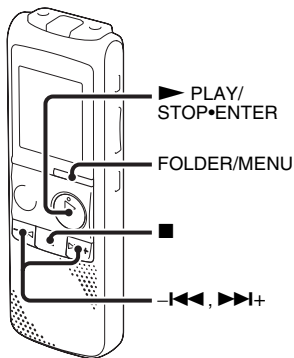
### Turning the power off

When you are not using the IC recorder, you can prevent the batteries from getting weak quickly by turning the power off. Slide the HOLD switch in the direction of the arrow in the stop mode. “OFF” flashes. The IC recorder turns off within a few seconds.

### 💡 Tips

- When you are not going to use the IC recorder for a long time, we recommend to turn off the IC recorder.
- When 10 minutes have passed after you have turned on the IC recorder and leave it without doing anything, the display goes off automatically. (Press any button to show the display.)

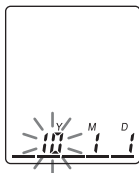
## Step 4: Setting the Clock



You need to set the clock to use the alarm function or record the date and time. Clock setting display appears when you insert batteries for the first time, or when you insert batteries after the IC recorder has been without batteries for a certain period of time, the year section flashes in the display window.

### Setting the clock after preparing a power source

- 1 Press **-◀◀** or **▶▶+** to set the year, month, day, hour, and minute in sequence, and then press **▶ PLAY/ STOP•ENTER**.



- 2 Press **■** (stop) to return to the stop mode display.

### Setting the clock using the menu

While the IC recorder is in the stop mode, you can set the clock using the menu.

- 1 Press and hold **FOLDER/MENU** to enter the menu mode.

The menu mode window will be displayed.



- 2** Press **←←** or **→→** to select “SET DATE,” and then press **▶** PLAY/STOP•ENTER.



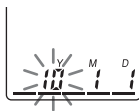
- 3** Press **←←** or **→→** to select “AUTO” or “MANUAL,” and then press **▶** PLAY/STOP•ENTER.



When you select “AUTO,” the clock is automatically adjusted using the clock in the computer connected to the IC recorder and on which the supplied Digital Voice Editor software is started.

When you select “MANUAL,” the year section flashes. Proceed to the next steps.

- 4** Press **←←** or **→→** to set the year, month, day, hour, and minute in sequence, and then press **▶** PLAY/STOP•ENTER.



- 5** Press **■** (stop) to return to the stop mode display.

#### **Tips**

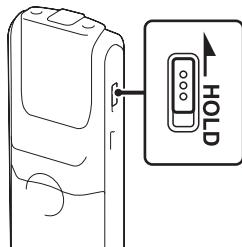
- Press FOLDER/MENU to return to the previous operation.
- You can set the time display for the clock to “12H” (12-hour display) or “24H” (24-hour display) in the “HOUR” menu. When “12H” (12-hour display) is set, “AM” or “PM” appears in the display window.

#### **Note**

If you do not press **▶** PLAY/STOP•ENTER within 1 minute of entering the clock setting data, the clock setting mode is cancelled and the window will return to the display of the stop mode.

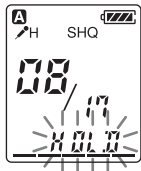
# Preventing Accidental Operation (HOLD)

## Locking the buttons



Slide the HOLD switch in the direction of the arrow in the recording or playback mode.

“HOLD” will flash indicating that all the functions of the buttons are locked.



## Unlocking the buttons

Slide the HOLD switch in the opposite direction from that of the arrow so that all buttons will be unlocked.

### Note

When the HOLD function is activated during recording, all the functions of the buttons are locked to prevent accidental operation. To stop recording, cancel the HOLD function first.

### Tip

Even if the HOLD function is activated, you can stop the alarm playback by pressing any button. (You cannot stop normal playback.)

# Recording

### Note

Before making a recording, exit HOLD mode and turn on the power.

## Selecting a folder

- 1 Press FOLDER/MENU to select the folder in which you want to record messages (**A**, **B**, **C**, **D**, or **E**).

There are 5 folders already available when you purchase the IC recorder.

If you do not change the folder after you stop recording, the next time you record you will record in the same folder.



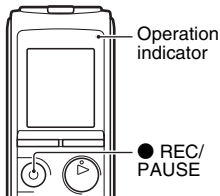
## Starting to record

- 1 Press ● REC/PAUSE in the stop mode.

The operation indicator lights in red. (When “LED” is set to “OFF” in the menu (page 57), the operation indicator does not light.)

You do not need to press and hold ● REC/PAUSE while recording.

The new message will be automatically recorded after the last recorded message.



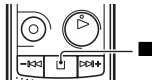
- 
- 2** Turn the built-in microphone in the direction of the source to be recorded.



---

## To stop recording

- 1** Press **■** (stop).  
The IC recorder stops at the beginning of the current recording.



---

## Other operations

---

pause recording*	Press <b>●</b> REC/PAUSE. During recording pause, the operation indicator flashes in red and “PAUSE” flashes in the display window.
release pause and resume recording	Press <b>●</b> REC/PAUSE again. Recording resumes from that point. (To stop recording after pausing recording, press <b>■</b> (stop).)
review the current recording instantly	Press <b>▶</b> PLAY/STOP•ENTER. Recording stops and playback starts from the beginning of the message just recorded.
review during recording	Press and hold <b>←◀◀</b> during recording or recording pause. Recording stops and you can search backwards while listening to fast playback sound. After you release <b>←◀◀</b> , playback starts from that point.

---

\* 1 hour after you pause recording, recording pause is automatically released and the IC recorder enters the stop mode.

### Tips

- Messages recorded using this IC recorder will be recorded as MP3 files.
- You can record up to 99 messages in each folder.



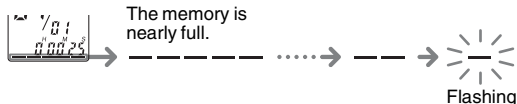
- Before you start recording, we recommend you make a trial recording first, or monitor the recording (page 26).
- While recording you can lock all the functions of all the buttons so that you can prevent inadvertent operations by sliding the HOLD switch in the direction of the arrow.

## ■ Notes

- While the operation indicator is flashing in orange, do not remove the batteries or connect or disconnect the USB AC adaptor. Doing so may damage the data.
- Noise may be recorded if an object, such as your finger, etc., accidentally rubs or scratches the IC recorder during recording.
- Before making a recording, be sure to check the battery indicator (page 10).
- To avoid replacing batteries during a long recording session, use a USB AC adaptor (not supplied) (page 73).

## Remaining memory indication

During recording, the remaining memory indicator decreases one by one.



When the remaining time of recording reaches 10 minutes, the last one of the indication flashes.

If the remaining recording time display mode is selected, the remaining recording time display will also flash when the remaining time reaches 1 minute. The display will be changed automatically to the remaining time display.

When the memory is full, recording automatically stops and **REC** and “FULL” will flash in the display window for about 3 seconds. To continue recording, first erase some of the messages.

# Listening

## ■ Note

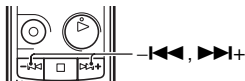
Before playback starts, exit HOLD mode and turn on the power.

## To start playback

- 1 Press FOLDER/MENU to select the folder (**A**, **B**, **C**, **D**, or **E**).

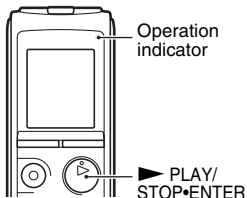


- 2 Press **◀◀** or **▶▶** to select the message you want to play.



- 3 Press **▶** PLAY/STOP•ENTER.

Playback will start soon, and the operation indicator will light in green. (When “LED” is set to “OFF” in the menu (page 57), the operation indicator does not light.)

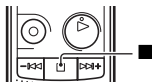


**4** Press VOL +/- to adjust the volume.



## To stop playback

**1** Press ■ (stop).



## Other operations

stop at the current position (Playback Pause function) Press ► PLAY/STOP•ENTER or ■ (stop). To resume playback from that point, press ► PLAY/STOP•ENTER again.

go back to the beginning of the current message Press ◀◀◀ once.\*

go back to previous messages Press ◀◀◀ repeatedly. (During the stop mode, keep the button pressed to go back the messages continuously.)

skip to the next message Press ▶▶▶ once.\*

skip to the succeeding messages Press ▶▶▶ repeatedly. (During the stop mode, keep the button pressed to skip the messages continuously.)

\* These operations are for when "EASY-S" (Easy Search function) is set to "OFF" (page 55).

### 🔒 Tip

During playback you can lock all the functions of all the buttons so that you can prevent inadvertent operations by sliding the HOLD switch in the direction of the arrow.

# Erasing

## ■ Notes

- Once a recording has been erased, you cannot retrieve it.
- Before erasing a message, exit HOLD mode and turn on the power.
- If the message you want to erase is locked in the menu, the message is not erased.

## Selecting a message and erasing it

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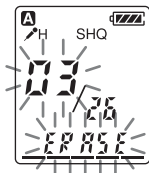
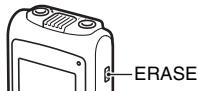
**1** Select the message you want to erase when the IC recorder is in the stop or playback mode.

---

**2** Press ERASE while you are playing back the message you want to erase, or press and hold ERASE during the stop mode.

A beep will sound and the message number and “ERASE” will flash.

When “BEEP” in the menu is set to “OFF,” no beep sound will be heard.



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**3** Press ERASE again.

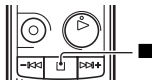
“ERASE” appears in the display window and the selected message will be erased.

When a message is erased, the remaining messages will advance and be renumbered so that there will be no space between messages.

**To cancel erasing**

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- 1** Press ■ (stop) before step 3 of “Selecting a message and erasing it.”

**Erasing another message**

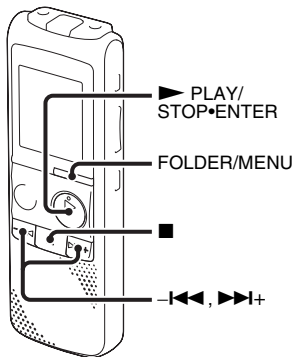
Proceed with the same steps again from the beginning.

**Erasing a part of one message**

Divide the message into two messages first (page 47), and then proceed with the same steps from the beginning.

# Changing the Recording Settings

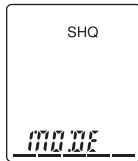
## Selecting the recording mode



You can select the recording mode in the menu when the IC recorder is in the stop mode.

- 1 Press and hold FOLDER/MENU to enter the menu mode.  
The menu mode window will be displayed.

- 2 Press -<<< or >>>+ to select "MODE," and then press ► PLAY/ STOP•ENTER.



- 3 Press -<<< or >>>+ to select "SHQ," "HQ," "SP," or "LP" and then press ► PLAY/STOP•ENTER.



- 4 Press ■ (stop) to exit the menu mode.

SHQ	Super high-quality monaural recording mode (44.1 kHz/192 kbps) You can record with monaural super high-quality sound.
HQ	High-quality monaural recording mode (44.1 kHz/128 kbps) You can record with monaural high-quality sound.
SP	Standard play monaural recording mode (44.1 kHz/48 kbps) You can record with standard quality sound.
LP	Long play monaural recording mode (11.025 kHz/8 kbps) You can record for a longer time with monaural sound.

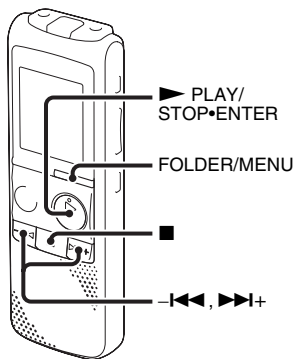
To record with better sound quality, select the SHQ or HQ mode.

The recording mode is set to “SHQ” when you purchase the IC recorder.

#### **Note**

You cannot set the recording mode while recording.

## Setting the microphone sensitivity

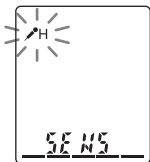




You can set the microphone sensitivity in the menu when the IC recorder is stopped or is recording.

**1** Press and hold FOLDER/MENU to enter the menu mode.

The menu mode window will be displayed.

- 2 Press **◀◀** or **▶▶+** to select “SENS,” and then press **▶** PLAY/STOP•ENTER.



- 3 Press **◀◀** or **▶▶+** to select “H” or “L,” and then press **▶** PLAY/STOP•ENTER.


- 4 Press **■** (stop) to exit the menu mode.



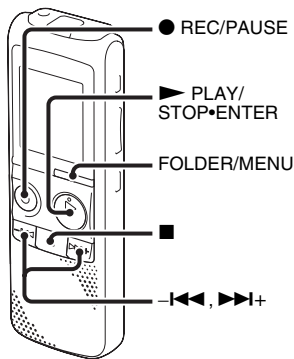
To record a sound far away from the IC recorder or a low sound, such as a recording made in a spacious room.



To record dictation with a microphone in front of your mouth, a sound near the IC recorder, or a loud sound.

The microphone sensitivity is set to “H” when you purchase the IC recorder.

## Starting to record automatically in response to sound – the VOR function



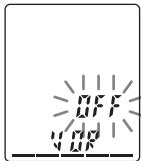
You can set the VOR (Voice Operated Recording) function to “ON” when the IC recorder is stopped or is recording, to make the IC recorder start recording when the IC recorder detects sound, and pause when no sound is heard, eliminating recording during soundless periods.



- 1** Press and hold FOLDER/MENU to enter the menu mode.

The menu mode window will be displayed.

- 2** Press **◀◀** or **▶▶+** to select “VOR,” and then press **▶** PLAY/STOP•ENTER.



- 3** Press **◀◀** or **▶▶+** to select “ON,” and then press **▶** PLAY/STOP•ENTER.



The VOR function is set to “OFF” when you purchase the IC recorder.

- 4** Press **■** (stop) to exit the menu mode.

- 5** Press **●** REC/PAUSE.

**REC** and “VOR” appear in the display window.

The recording pauses when no sound is detected and “VOR” and “PAUSE” flash. When the IC recorder detects sound again, the recording starts again.

### To cancel the VOR function

Set “VOR” to “OFF” in step 3.


#### Note

The VOR function is affected by the sound around you. Set “SENS” in the menu according to the recording conditions. If recording is not satisfactory after you have changed the microphone sensitivity, or for an important recording, set “VOR” to “OFF” in the menu.

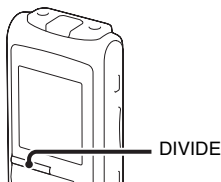
# Operating during Recording

## Monitoring the recording



If you connect commercially available headphones to the  (headphone) jack before you start, you can monitor the recording. You can adjust the monitoring volume by pressing VOL +/-, but the recording level is fixed.

## Dividing a message during recording



You can divide a message during recording so that the message is divided into two parts, and a new message number is added to the newer part of the divided message. Once a message is divided, you cannot re-combine the divided messages. To combine the divided messages, use the supplied application software.

- 1** Press DIVIDE during recording. "DIVIDE" and a new message number flash in the display window and the new message number is added at the point you pressed the button. The message will

be recorded as two messages, however recording continues without stopping.



Message is divided.

Message 2 and Message 3 are recorded without stopping.

### Tip

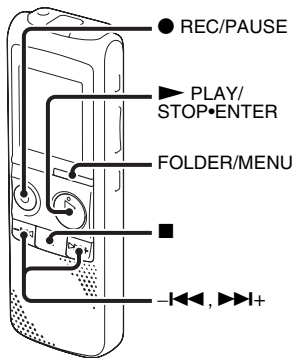
You can divide the currently recorded message during recording pause.

### Notes

- When you divide a message into two, at the point of division, the end of the first message and the beginning of the second message may be interrupted.
- If you divide messages too frequently while the IC recorder is recording them, the following phenomenon may occur: The operation indicator keeps flashing, and you cannot operate the IC recorder for a certain period. This is not a malfunction. Wait until the operation indicator goes off.

# Adding a Recording

## Adding a recording to a previously recorded message

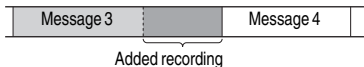


When “REC-OP” in the menu is set to “ADD,” you can add a recording to the message being played back. The added recording will be placed after the current message, and will be counted as a part of the message.

During playback of Message 3



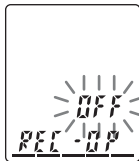
After adding a recording



**1** Press and hold FOLDER/MENU to enter the menu mode.

The menu mode window will be displayed.

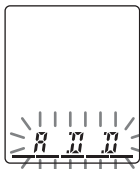
**2** Press -◀◀ or ▶▶+ to select “REC-OP,” and then press ▶ PLAY/STOP•ENTER.



- 3 Press **◀◀** or **▶▶+** to select “ON,” and then press **▶** PLAY/STOP•ENTER.



- 4 Press **◀◀** or **▶▶+** to select “ADD,” and then press **▶** PLAY/STOP•ENTER.



- 5 Press **■** (stop) to exit the menu mode.
- 6 When the message to be added is played back, press **●** REC/PAUSE.  
**REC** and “ADD” will flash and the IC recorder stops in the recording pause mode.
- 7 While “ADD” is flashing, press **●** REC/PAUSE again.

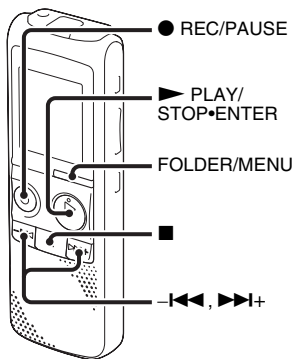
The operation indicator will light in red, and the recording will be added at the end of the current message.

- 8 Press **■** (stop) to stop recording.

#### ■ Notes

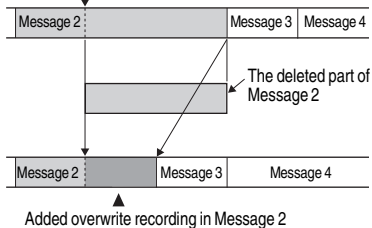
- You cannot add a recording if the remaining memory is insufficient.
- The added portion of a message will be recorded in the same recording mode.
- If 10 minutes have passed after step 6, you must start the procedure again from the beginning.

## Adding an overwrite recording during playback

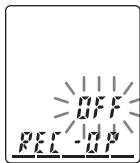


When “REC-OP” in the menu is set to “OVER,” you can add an overwrite recording after a selected point in a recorded message. The remainder of the message after the selected point is deleted.

The starting point of an overwrite recording



- 1 Press and hold FOLDER/MENU to enter the menu mode.  
The menu window will be displayed.
- 2 Press -◀◀ or ▶▶+ to select “REC-OP,” and then press ▶ PLAY/STOP•ENTER.



- 3 Press **←←** or **→→+** to select “ON,” and then press **▶ PLAY/STOP•ENTER**.



- 4 Press **←←** or **→→+** to select “OVER,” and then press **▶ PLAY/STOP•ENTER**.



- 5 Press **■** (stop) to exit the menu mode.
- 6 When the message to be overwritten is played back, press **● REC/PAUSE**. **REC** and “OVER” will flash and the IC recorder stops in the recording pause mode.
- 7 While “OVER” is flashing, press **● REC/PAUSE** again.

The operation indicator will light in red and recording starts.

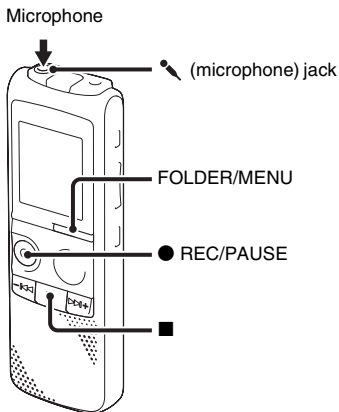
- 8 Press **■** (stop) to stop recording.

#### ■ Notes

- You cannot overwrite a recording if the remaining memory is insufficient.
- The overwritten portion of a message will be recorded in the same recording mode.
- If 10 minutes have passed after step 6, you must start the procedure again from the beginning.

# Recording via Other Devices

## Recording with an external microphone



- 1 Connect an external microphone to the (microphone) jack when the IC recorder is in the stop mode.  
When the recording mode is set to “SHQ” or “HQ,” and a stereo microphone is used, you can record sound in stereo.

- 2 Press FOLDER/MENU to select the folder in which you want to record messages (A, B, C, D, or E).

- 3 Press ● REC/PAUSE to start recording. The built-in microphone is automatically cut off.  
If the input level is not strong enough, adjust the microphone sensitivity on the IC recorder.

When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC recorder.

- 4 Press ■ (stop) to stop recording.

### 💡 Recommended microphones

- Stereo microphone with shirt-clip is supplied with some models in some regions only. (The clip is detachable.)
- You can use the Sony ECM-CZ10, ECM-DS70P, ECM-DS30P (U.S.A., Canada, Latin America and Korea only), ECM-DM5P, ECM-Z60 (U.S.A. only), ECM-CS10 electret condenser microphone (not supplied).



## Recording sound from a telephone or a cell phone

You can use the ECM-TL1 headphone-type electret condenser microphone (not supplied) to record sound from a telephone or a cell phone.

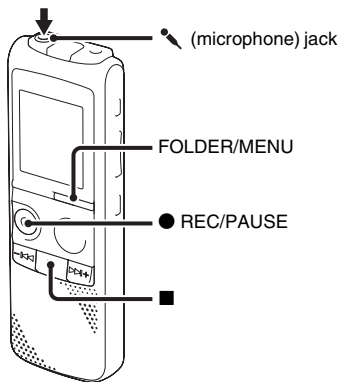
For details on how to make the connection, refer to the operating instructions supplied with the ECM-TL1 microphone.

### Notes

- After you have made the connection, check the sound quality of the conversation and the recording level before you start recording.
- If the beep of the telephone or a dial tone is recorded, the conversation may be recorded with lower level of sound. In this case, start recording after the conversation has started.
- The VOR function may not work, depending on the kind of telephone or the line condition.
- We assume no responsibility whatsoever for any inconvenience, even if you cannot record a conversation using the IC recorder.
- Your dealer may not handle some of the optional accessories. Please ask the dealer for detailed information.

## Recording from other equipment


Other equipment




You can make music files without using the computer by recording the sound from other equipment connected to the IC recorder.

### Tips


- Before you start recording, we recommend you make a trial recording first.
- If the input level is not strong enough, connect the headphone jack (minijack, stereo) of other equipment to the


 (microphone) jack of the IC recorder and adjust the volume level on the piece of equipment connected to the IC recorder.

- 1 Connect other equipment to the IC recorder when the IC recorder is in the stop mode.

Connect the audio output connector (stereo mini-plug) of other equipment to the  (microphone) jack of the IC recorder using an audio connecting cable (page 34)\*.

- 2 Press FOLDER/MENU to select the folder in which you want to record messages (**A**, **B**, **C**, **D**, or **E**).

- 3 Press  REC/PAUSE to start recording. The built-in microphone is automatically cut off.

- 4 Press  (stop) to stop recording.

### \* Optional audio connecting cables (not supplied)

	To the IC recorder	To the other equipment
RK-G139	Stereo mini-plug	Mini-plug (monaural)
RK-G136	Stereo mini-plug	Stereo mini-plug



### Notes

- When recording from other equipment, the microphone sensitivity cannot be adjusted.
- Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.



# Changing the Playback Method



## Convenient playback methods

### Listening with better sound quality



- To listen with the headphones:  
Connect the supplied or commercially available headphones to the  (headphone) jack. The built-in speaker will be automatically disconnected.
- To listen from an external speaker:  
Connect an active or passive speaker (not supplied) to the  (headphone) jack.

### Quickly locating the point you wish to start playback (Easy Search)

When “EASY-S” is set to “ON” (page 55) in the menu, you can quickly locate the point at which you wish to start playback by pressing  or  repeatedly during playback.


You can go back approx. 3 seconds by pressing  once, or advance approx. 10 seconds by pressing  once. This function is useful for locating a desired point in a long recording.

### Searching forward/backward during playback (Cue/Review)

- To search forward (Cue):  
Press and hold + during playback and release it at the point you wish to resume playback.
- To search backward (Review):  
Press and hold - during playback and release it at the point you wish to resume playback.

The IC recorder searches at slow speed with playback sound. This is useful to check one word forward or back. Then, if you press and hold the button, the IC recorder starts to search at higher speed.

### When messages are played back to the end of the last message

- When you play back or fast play back to the end of the last message, “END” flashes up for 5 seconds and the operation indicator lights up in green. (You cannot hear the playback sound.)
- When “END” and the operation indicator go off, the IC recorder will stop at the beginning of the last message.
- If you press and hold  while “END” is flashing, the messages are played back

rapidly, and normal playback will start at the point you release the button.

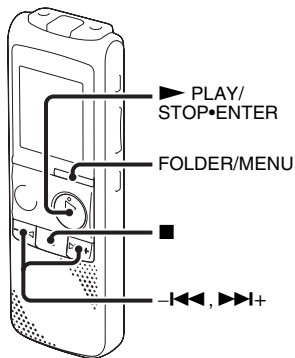
- If the last message is long and you wish to start playback at a later part of the message, press and hold ►►►+ to go to the end of the message, and then press -◄◄◄ while “END” is flashing to go back to the desired point.
- For messages other than the last one, go to the beginning of the next message and play backward to the desired point.

### Playing back a message repeatedly

During playback, press and hold ► PLAY/STOP•ENTER until “↺” appears. The selected message will be played back repeatedly.

To resume normal playback, press ► PLAY/STOP•ENTER again.

## Adjusting the playback speed – the DPC function

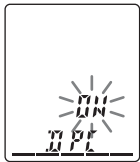


When you set the DPC (Digital Pitch Control) function to “ON,” you can adjust the playback speed between +100% and -50% of normal speed in the menu. The message is played back in natural tones thanks to the digital processing function.

**1** Press and hold FOLDER/MENU to enter the menu mode.

The menu mode window will be displayed.

- 2 Press **←←** or **→→+** to select “DPC,” and then press **▶** PLAY/STOP•ENTER.
- 3 Press **←←** or **→→+** to select “ON,” and then press **▶** PLAY/STOP•ENTER.



- 4 Press **←←** or **→→+** to adjust the speed of the playback, and then press **▶** PLAY/STOP•ENTER.

Every time **→→+** is pressed, you can increase the speed by 5% for + from -50% to 0%, and 10% for + between 0% and 100%.

Every time **←←** is pressed, you can decrease the speed by 5% for - from 0% to -50%, and 10% for - between 100% and 0%.

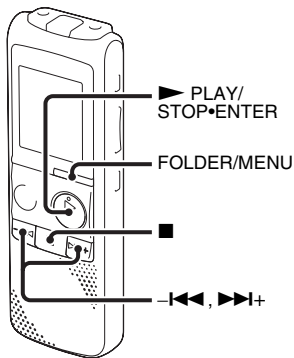
- 5 Press **■** (stop) to exit the menu mode.

### To resume normal playback

Set “DPC” to “OFF” in step 3.

# Changing the Playback Settings

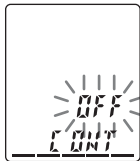
## Playing back all messages in a folder continuously – the continuous play



You can select the continuous play mode with “CONT” in the menu. When you set “CONT” to “ON,” you can play back all messages in a folder continuously.

- 1 Press and hold FOLDER/MENU to enter the menu mode when the IC recorder is in the stop or playback mode. The menu mode window will be displayed.

- 2 Press -<<< or >>>+ to select “CONT,” and then press ► PLAY/STOP•ENTER.



- 3 Press -<<< or >>>+ to select “ON,” and then press ► PLAY/STOP•ENTER.



- 4 Press ■ (stop) to exit the menu mode.

## Playing back a specified section repeatedly – A-B Repeat

- 1 During playback, press **↶** (repeat) A-B to specify the starting point A. “A-B B” flashes.
- 2 Press **↶** (repeat) A-B again to specify the finishing point B. “↶” and “A-B” is displayed and the specified section is played back repeatedly.

To resume normal playback:  
Press **▶** PLAY/STOP•ENTER.

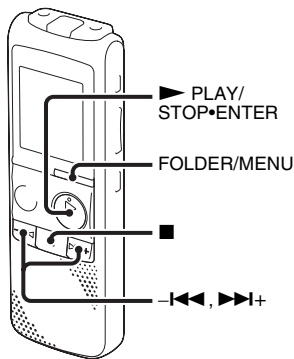
To stop A-B Repeat playback:  
Press **■** (stop).

To change the segment specified for A-B Repeat playback:  
During A-B Repeat playback, press **↶** (repeat) A-B again to specify a new starting point A. Then specify a new finishing point B, as in step 2.

### **■** Note

You cannot specify the finishing point B before the starting point A that has been set.

## Making the human voice clearer – the noise cut function

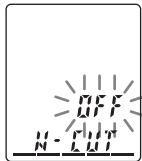


When the noise cut function is set to “ON” in the menu, the distortion of very low and high frequencies which are outside the human voice range is reduced, therefore you can hear the human voice more clearly.

- 1 Press and hold FOLDER/MENU to enter the menu mode when the IC recorder is in the stop or playback mode.

The menu mode window will be displayed.

- 2** Press **←|←** or **▶|▶+** to select “N-CUT,” and then press **▶** PLAY/STOP•ENTER.



- 3** Press **←|←** or **▶|▶+** to select “ON,” and then press **▶** PLAY/STOP•ENTER.



- 4** Press **■** (stop) to exit the menu mode.

#### ■ Notes

- The effect of the noise cut function may be different depending on the condition of the recorded voice.

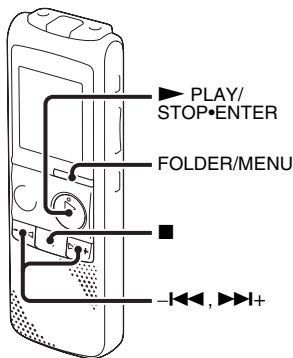
- When you are using the built-in speaker or monitoring the recording, the noise cut function may not be effective.

#### To cancel the noise cut function

Set “N-CUT” to “OFF” in step 3.



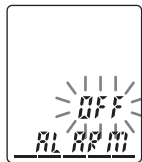
## Playing Back a Message at a Desired Time with an Alarm



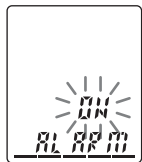
You can sound an alarm and start playback of a selected message at a desired time. You can have the message played back on a specified date, once every week, or at the same time every day.

- 1** Select the message you want to play back with an alarm.
- 2** Enter the alarm setting mode.

- ① Press and hold FOLDER/MENU to enter the menu mode when the IC recorder is in the stop mode. The menu mode window will be displayed.
- ② Press -<<< or >>>+ to select "ALARM," and then press ► PLAY/STOP•ENTER.



- ③ Press -<<< or >>>+ to select "ON," and then press ► PLAY/STOP•ENTER.



### 3 Set the alarm date and time.

① Press **←|←|** or **▶|▶|+** to select “DATE,” a day of the week, or “DAILY,” and then press **▶ PLAY/STOP•ENTER**.

#### ② **When you select “DATE”:**

Set the year, month, day, hour, and minute in sequence, as described in “Step 4: Setting the Clock” on page 12, and then press **▶ PLAY/STOP•ENTER**.

#### **When you select a day of the week or “DAILY”:**

Press **←|←|** or **▶|▶|+** to set the hour, and then press **▶ PLAY/STOP•ENTER**, press **←|←|** or **▶|▶|+** to set the minute, and then press **▶ PLAY/STOP•ENTER**.

### 4 Press **←|←|** or **▶|▶|+** to select the alarm sound either from “B-PLAY,” “BEEP” or “PLAY,” and then press **▶ PLAY/STOP•ENTER**.

“ALARM ON” will be displayed.

### 5 Press **■** (stop) to exit the menu mode. The setting process is finished and “(●)” (alarm indicator) appears in the display window.

---

B-PLAY	The selected message will be played back after the alarm.
--------	---

---

BEEP	Only the alarm will sound.
------	----------------------------

---

PLAY	Only the selected message will be played back.
------	--

---

## To change the alarm setting

Start from step 2 on page 41.

## To cancel the alarm setting

Follow steps 1 and 2-③ on page 41. In step 2-③, press **←|←|** or **▶|▶|+** to select “OFF,” and then press **▶ PLAY/STOP•ENTER**. The alarm will be cancelled and the alarm indicator will disappear from the display window.

## When the set date and time comes

At the set time, the alarm will sound for about 10 seconds and the selected message will be played back. (If you have selected “BEEP,” only the alarm will sound. If you have selected “PLAY,” only the selected message will be played back.) During playback, “ALARM” will flash in the display window.

If you have selected “B-PLAY” or “PLAY,” the IC recorder will stop

automatically at the beginning of that message when the playback ends.

## To listen to the same message again

Press ► PLAY/STOP•ENTER, and the same message will be played back from the beginning.

## To stop the alarm playback

Press any button other than VOL +/- while the alarm sound is heard. If the HOLD function is activated, you can stop the alarm playback by pressing any button.

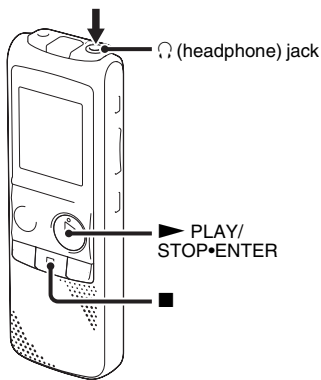
### ■ Notes

- You can set only one alarm each one message.
- “ALARM OFF (or ON)” will not appear and the alarm cannot be set if the clock has not been set or no message has been recorded in the selected folder.
- When the clock has not been set or no messages are recorded, you cannot set the alarm.
- The alarm sounds even if you set “BEEP” to “OFF” in the menu (page 57).
- If you try to set the alarm to play back a message at a previously set time on another message, “PRE SET” will be displayed, preventing new settings.
- If the alarm time comes during recording, the alarm will sound after the recording is finished. “(●)” will flash when the alarm time comes.
- If the alarm time comes while you are updating data, the alarm will be cancelled automatically.
- If more than one alarm time comes, only the first message will be played back with an alarm.
- Once the alarm is set, the alarm will not be cancelled, even after the message is played back.
- If the alarm time comes while another message is being played back with an alarm, the playback stops and the new message will be played back.
- If you divide a message you have set an alarm for, the alarm setting remains on only the first part of the divided message.
- If you delete a message on which you have set an alarm, that alarm will be also cancelled.
- If the alarm time comes during erasing operation, alarm will sound for 10 seconds after the erasing is finished and playback begins.

# Playback via Other Devices

## Recording with other equipment

Tape recorder, etc.



You can record the sound of the IC recorder with other equipment.

Before you start recording, we recommend you to make trial recording first.

- 1 Connect the (headphone) jack of the IC recorder to the audio input connector

(stereo minijack) of other equipment using an audio connecting cable\*.

- 2 Press ► PLAY/STOP•ENTER to start playback and at the same time set the connected equipment to the recording mode.

A message from the IC recorder will be recorded on the piece of equipment connected.

- 3 Press ■ (stop) on the IC recorder and the connected equipment at the same time to stop recording.

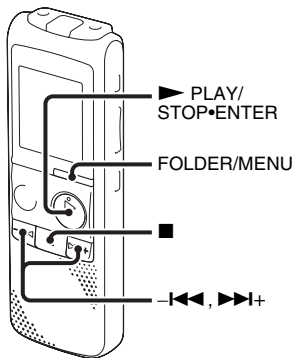
### \* Optional audio connecting cables (not supplied)

	To the IC recorder	To the other equipment
RK-G139	Stereo mini-plug	Mini-plug (monaural)
RK-G136	Stereo mini-plug	Stereo mini-plug

### ■ Note

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.

# Erasing All Messages in a Folder



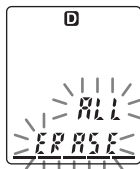
### Note

If the selected folder contains a protected message, you cannot erase the message.

- 1 Press FOLDER/MENU to select the folder containing the messages you want to erase when the IC recorder is in the stop mode (A, B, C, D, or E).
- 2 Press and hold FOLDER/MENU to enter the menu mode.

The menu mode window will be displayed.

- 3 Press -<<< or >>>+ to select “ALL ERASE,” and then press ► PLAY/STOP•ENTER.

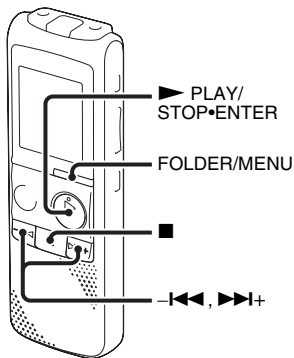


- 4 Press ► PLAY/STOP•ENTER while “ALL ERASE” is flashing. “ACCESS” flashes in the display window and all messages in the selected folder will be erased.
- 5 Press ■ (stop) to exit the menu mode.

### To cancel erasing

Press ■ (stop) before step 3.

# Moving a Message to a Different Folder

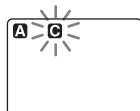


You can move the recorded messages to another folder.

- 1 Select the message you want to move.
- 2 Press and hold FOLDER/MENU to enter the menu mode when the IC recorder is in the stop or playback mode. The menu mode window will be displayed.

- 3 Press **←|←|←** or **→|→|→** to select “MOVE,” and then press **▶ PLAY/STOP•ENTER**.

The destination folder indicator flashes.



- 4 Press **←|←|←** or **→|→|→** to select the folder that you want to move the message into, and then press **▶ PLAY/STOP•ENTER**.

The message is moved to the last position in the destination folder.

When you move a message to another folder, the original message in the previous folder will be deleted.

- 5 Press **■** (stop) to exit the menu mode.

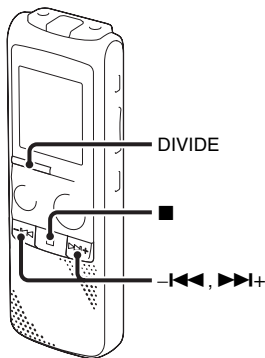
## To cancel moving the message

Press **■** (stop) before step 4.

### ■ Note

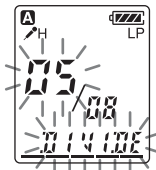
If 99 messages have been recorded in the folder to which you want to move a message, you cannot move it.

# Dividing a Message into Two



You can divide a message during playback, so that the message is divided into two parts and a new message number is added to the newer part of the divided message. By dividing a message, you can easily find the point from which you want to play back when you make a long recording such as at a meeting. You can divide a message until the total number of messages in the folder reaches 99.

- 1 Press DIVIDE while you are playing back the message you want to divide. The current message number and “DIVIDE” flash.



- 2 Press DIVIDE.

“DIVIDE” appears, a new number is added to the newer part of the divided message, and the message numbers of the following messages will be incremented by one.

Message 1	Message 2	Message 3	
	↓ A Message is divided. ▲		
Message 1	Message 2	Message 3	Message 4

The message numbers are incremented.

## To cancel dividing the message

Press ■ (stop) before step 2.

## ■ Notes

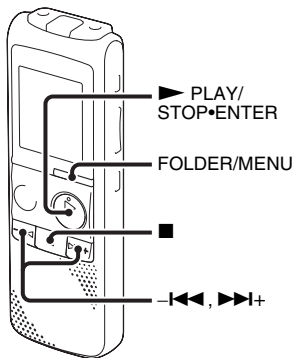
- You need a certain amount of free space in the memory to divide a message.
- If 99 messages have been recorded in a folder, you cannot divide a message. In that case, reduce the number of messages to 98 or less by erasing unwanted messages or by moving some of the messages to another folder before dividing a message.
- When you divide a message with a title and artist name, the newer part has the same title, artist name.
- You cannot divide a message other than the one recorded using the IC recorder (MP3 file transferred from a computer).
- Once a message is divided, you cannot combine divided messages using the IC recorder. To combine the divided messages, use the supplied application software.
- If you divide a message with an alarm setting, the same alarm setting remains only with the former message divided.
- You may not be able to divide a message at the beginning or at the end of the message because of system limitations.
- If you divide a message during A-B Repeat playback or one message repeat playback, the repeat setting will be cancelled.
- If more than 10 seconds have passed after step 1, you must start the procedure again from the beginning.

## To play the divided message

Press **◀◀** or **▶▶** to display the message number, as the divided messages now each have message numbers.



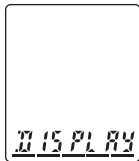
# Selecting the Display



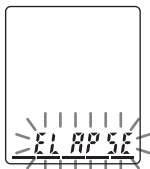
When the IC recorder is in the recording/ recording pause, stop, or playback modes, you can select elapsed time, remaining time (REMAIN), recorded date (REC DATE), or recorded time (REC TIME) to be displayed in the display window.

- 1 Press and hold FOLDER/MENU to enter the menu mode.  
The menu mode window will be displayed.

- 2 Press -<<< or >>>+ to select “DISPLAY,” and then press ► PLAY/ STOP•ENTER.

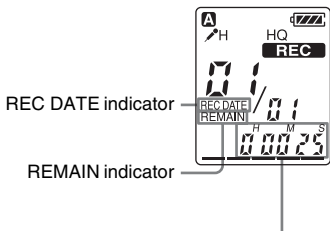


- 3 Press -<<< or >>>+ to select “ELAPSE,” “REMAIN,” “REC DATE,” or “REC TIME,” and then press ► PLAY/STOP•ENTER.



- 4 Press ■ (stop) to exit the menu mode.

The display will change as shown below.



Elapsed time, remaining time with the REMAIN indicator, recorded date with the REC DATE indicator\*, or recorded time with the REC DATE indicator\*\*

\* If the clock has not been set, "--Y--M--D" will be displayed.

\*\* If the clock has not been set, "-:--:--" will be displayed.

## While the IC recorder is in the recording/recording pause mode

Elapsed time Displays the recording time of the current message.

Remaining time Displays the remaining recording time of the IC recorder.

Recorded date Displays the date when the IC recorder started recording the current message.

Recorded time Displays the time when the IC recorder started recording the current message.

## While the IC recorder is in the playback/stop mode

Elapsed time Displays the elapsed playback time of the current message.

Remaining time Displays the remaining time of the current message when the IC recorder is in the playback mode. Displays the remaining recording time when the IC recorder is in the stop mode.

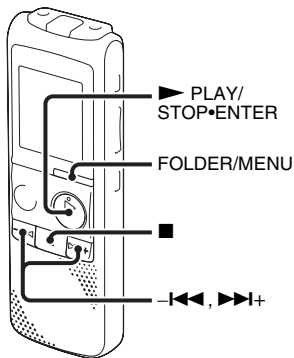
Recorded date Displays the date when the current message was recorded.

Recorded time Displays the time when the current message was recorded.

## Notes

- If the remaining recording time is less than 1 minute, the display will change automatically to the remaining time display and the display will flash.
- If the IC recorder is left unoperated for more than 3 seconds in the stop mode, the display will return to the current time, regardless of the display setting.

# Making Settings for the Menu

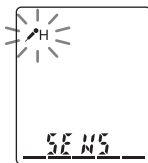


- 1** Press and hold FOLDER/MENU to enter the menu mode.

The menu mode window will be displayed.



- 2** Press -<<< or >>>+ to select the menu item for which you want to make setting, and then press ► PLAY/STOP•ENTER.



- 3** Press -<<< or >>>+ to select the setting that you want to set, and then press ► PLAY/STOP•ENTER.

- 4** Press ■ (stop) to exit the menu mode.

### ■ Note

If you do not press any button for 1 minute, the menu mode is automatically cancelled and the window will return to the normal display.

### To return to the previous window

Press FOLDER/MENU during menu mode.

### To exit the menu mode

Press ■ (stop).

# Menu Settings

Menu items	Settings	Operation mode (○ : the setting can be made/ — : the setting cannot be made)		
		Stop mode	Playback mode	Recording mode
MODE	SHQ, HQ, SP, LP	○	—	—
SENS	H, L	○	—	○
VOR	ON, OFF	○	—	○
REC-OP	ON (ADD, OVER), OFF	○	—	—
DPC	ON (-50% to +100%), OFF	○	○	—
N-CUT	ON, OFF	○	○	—
EASY-S	ON, OFF	○	○	—
CONT	ON, OFF	○	○	—
DISPLAY	ELAPSE, REMAIN, REC DATE, REC TIME	○	○	○
SET DATE		○	—	—
HOUR	12H, 24H	○	—	—
BEEP	ON, OFF	○	—	—
LED	ON, OFF	○	—	—
ALARM	ON (DATE, SUN, MON, TUE, WED, THU, FRI, SAT, DAILY), OFF	○	—	—
LOCK	ON, OFF	○	—	—
MOVE		○	—	—
ALL ERASE		○	—	—
FORMAT	YES, NO	○	—	—

<b>Menu items</b>	<b>Settings (*: Initial setting)</b>	<b>See page</b>
<b>MODE</b>	Sets the recording mode. SHQ*: Super high-quality monaural recording mode. HQ: High-quality monaural recording mode. SP: Standard play monaural recording mode. LP: Long play monaural recording mode.	22
<b>SENS</b>	Sets the microphone sensitivity. H*: To record a sound far away from the IC recorder or a low sound, such as a recording made in a spacious room. L: To record dictation with a microphone in front of your mouth, a sound near the IC recorder, or a loud sound.	23
<b>VOR</b>	Sets the VOR (Voice Operated Recording) function. ON: Recording starts when the IC recorder detects sound and pauses when no sound is heard, eliminating recording during soundless periods. The VOR function is activated when ● REC/PAUSE is pressed. OFF*: The VOR function does not work.	24

<b>Menu items</b>	<b>Settings (*: Initial setting)</b>	<b>See page</b>
<b>REC-OP</b>	<p>Adds a recording to a previously recorded message or adds an overwrite recording during playback.</p> <p>ON:            You can add a recording or overwrite a recording.</p> <p>ADD*:            You can add a recording.</p> <p>OVER:            You can overwrite a recording.</p> <p>OFF*:            You cannot add a recording or overwrite a recording.</p>	28, 30
<b>DPC</b>	<p>Sets the DPC (Digital Pitch Control) function.</p> <p>ON:            You can adjust the speed of the playback in a range from +100% to -50%, by 10% increments for the + setting and by 5% increments for the - setting.</p> <p>-30%*</p> <p>OFF*:            The DPC function is cancelled.</p>	36
<b>N-CUT</b>	<p>Sets the noise cut function.</p> <p>ON:            The distortion of very low and high frequencies which are outside the human voice range is reduced, therefore you can hear the human voice more clearly.</p> <p>OFF*:            The noise cut function does not work.</p>	39

<b>Menu items</b>	<b>Settings (*: Initial setting)</b>	<b>See page</b>
<b>EASY-S</b>	<p>Sets the easy search function.</p> <p>ON: You can go forward for about 10 seconds by pressing ►►I+ and go back for about 3 seconds by pressing -I◄◄. This function is useful when attempting to locate desired point in a long recording.</p> <p>OFF*: The easy search function does not work. When you press ►►I+ or -I◄◄, a message will be moved forward or backward.</p>	35
<b>CONT</b>	<p>Plays back the messages in the selected folder continuously.</p> <p>ON: The CONT function is activated.</p> <p>OFF*: A message is played back and the IC recorder stops at the beginning of the next message.</p>	38

Menu items	Settings (*: Initial setting)	See page
<b>DISPLAY</b>	<p>Changes the display mode.</p> <p>ELAPSE*:            During recording, the recording time of the current message            During playing back, the elapsed playback time of one message</p> <p>REMAIN:            During recording or being stopped, the available recording time            During playing back, the remaining time of the message</p> <p>REC DATE:            Date recorded</p> <p>REC TIME:            Time recorded</p> <p><b>■ Notes</b></p> <ul style="list-style-type: none"> <li>• If the remaining recording time is less than 1 minute, the display will change automatically to the remaining time display and the display will flash.</li> <li>• If the IC recorder is left unoperated for more than 3 seconds in the stop mode, the display will return to the current time, regardless of the display setting.</li> </ul>	49
<b>SET DATE</b>	<p>Sets the clock.</p> <p>AUTO*:            When the IC recorder is connected to a computer that is running the Digital Voice Editor, the clock will be automatically adjusted according to that computer.</p> <p>MANUAL:            You can set the clock manually by setting year, month, day, hour, and minute in sequence.</p>	12
<b>HOOR</b>	<p>Sets the clock display.</p> <p>12H:            AM12:00 = midnight, PM12:00 = noon</p> <p>24H*:            0:00 = midnight, 12:00 = noon</p>	13



Menu items	Settings (*: Initial setting)	See page
<b>BEEP</b>	Sets whether a beep will be heard or not. <b>ON*:</b> A beep will sound to indicate that an operation has been accepted or an error has occurred. <b>OFF:</b> No beep sound will be heard.	–
<p><b>Note</b> The alarm sounds even if you set “BEEP” to “OFF” in the menu.</p>		
<b>LED</b>	Turns the operation indicator on or off during operation. <b>ON*:</b> During recording or playback, the operation indicator lights or flashes. <b>OFF:</b> The operation indicator does not light or flash, even during operation.	–
<p><b>Note</b> When the IC recorder is connected to a computer, the operation indicator lights or flashes even if “LED” is set to “OFF.”</p>		
<b>ALARM</b>	Sets the alarm. <b>ON:</b> To set the alarm, select “ON” and set the date, time or day of the week or choose “DAILY” for playback. <b>B-PLAY*:</b> The selected message will be played back after the alarm when the alarm time comes. <b>BEEP:</b> Only the alarm will sound when the alarm time comes. <b>PLAY:</b> Only the selected message will be played back when the alarm time comes. <b>OFF*:</b> The alarm setting is cancelled.	41

Menu items	Settings (*: Initial setting)	See page
<b>LOCK</b>	Locks the message so that you cannot move it, erase it, add a new message to it, add an overwritten message to it, or divide it. <b>ON:</b> The lock function is activated. <b>OFF*:</b> The lock function is cancelled.	–
<b>MOVE</b>	The selected message will be moved to the selected folder ( <b>A</b> , <b>B</b> , <b>C</b> , <b>D</b> , or <b>E</b> ). Before attempting to move a message, select the message to be moved, and then go to the menu window.	46
<b>ALL ERASE</b>	All messages in the selected folder will be erased. Select a folder from which all messages are to be erased, and then go to the menu window and press ► <b>PLAY/STOP•ENTER</b> while “ALL ERASE” is flashing.	45
<b>FORMAT</b>	Sets the formatting of the drive. <b>YES:</b> “ACCESS” flashes and the drive will be formatted. <b>NO*:</b> The drive will not be formatted.	–
<p><b>■ Notes</b></p> <ul style="list-style-type: none"> <li>• Use the IC recorder formatting function to format the memory.</li> <li>• When the memory is formatted, all the data stored in the IC recorder will be erased. Once the memory has been erased, you cannot retrieve the data that was erased.</li> </ul>		

# Using the IC Recorder with Your Computer

You can do the following when you connect the IC recorder to your computer using the supplied USB connecting cable.

### **Copying messages from the IC recorder to your computer to save them (page 63)**

You can copy the messages recorded on the IC recorder to save them.

### **Copying MP3 files from your computer to the IC recorder (page 64)**

You can copy the MP3 files saved on your computer by a simple drag & drop operation when you connect the IC recorder to your computer.

### **Managing and editing files using the Digital Voice Editor software (page 65)**

The Digital Voice Editor software allows you to transfer the messages that you have recorded using the IC recorder to your computer to manage and edit them. You can also transfer music files saved on your computer to the IC recorder.

### **Using the IC recorder as USB memory – data storage function (page 72)**

You can store image data or text data saved on the computer temporarily in the IC recorder.

### **System requirements for your computer**

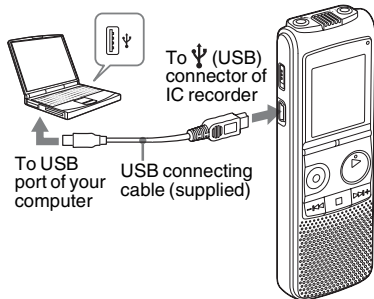
See “System requirements for your computer” on page 77.

## Connecting the IC recorder to your computer

You can transfer the IC recorder data onto your computer by connecting the IC recorder to the computer.

Use the USB connecting cable supplied with the IC recorder to connect the  $\Psi$  (USB) connector of the IC recorder and the USB port of your computer. The IC recorder is recognized by the computer as soon as the cable is connected. You can connect or disconnect the cable when the IC recorder and the computer are turned on or off.

While the IC recorder is connected to the computer, “PC LINK” is displayed in the display window of the IC recorder.

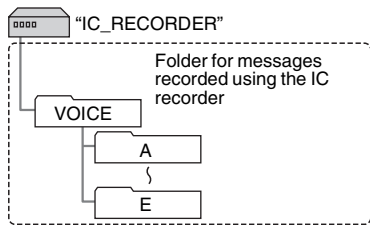


### **Notes**

- If you connect more than two USB devices to your computer, normal operation will not be guaranteed.
- Use of this IC recorder with a USB hub or a USB extension cable other than the supplied cable is not guaranteed.
- A malfunction may occur depending on the USB devices connected at the same time.
- Before connecting the IC recorder to the computer, make sure that the batteries are inserted in the IC recorder.
- It is recommended that you disconnect the cable from the computer when you are not using the IC recorder with your computer.

## Structure of folders and files

If you connect the IC recorder to your computer, you can see the structure of folders and files on the computer screen.



### Notes

- You can record messages in up to 5 folders (**A**, **B**, **C**, **D**, or **E**) using the IC recorder.
- The IC recorder does not recognize the folders transferred from your computer.
- You cannot copy 511 or more folders (except VOICE folders) or files to the root directory that is located immediately below “IC\_RECORDER” on the computer. This is due to FAT file system limitations.
- You cannot always transfer all files or folders, depending on either the number of characters you use in file or folder names, or the operating system.

## Disconnecting the IC recorder from your computer

Follow the procedures below; otherwise, data may be damaged.

- Make sure that the operation indicator does not light.
- Perform the following operation on your computer.  
On the Windows screen, left-click the icon at the bottom of the desktop of the computer.



→ Left-click “Safely remove USB Mass Storage Device.”

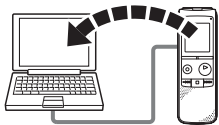
The icon can be different on different operating systems.

On the Macintosh screen, drag the “IC\_RECORDER” on the desktop to “Trash” and drop it there.

For details on disconnecting the IC recorder from your computer, refer to the operating instructions supplied with your computer.

- 3** Make sure that the display of the IC recorder turns off.
- 4** Disconnect the USB connecting cable connected to the IC recorder from the USB port of the computer.

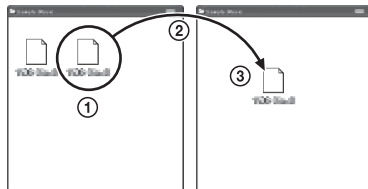
# Copying Messages from the IC Recorder to Your Computer to Save Them



You can save messages or folders by copying them from the IC recorder to your computer.

- 1** Connect the IC recorder to your computer (page 60).
- 2** Copy messages or folders you want to save to your computer.  
Drag and drop the messages or folders you want from “IC\_RECORDER” to the local disc on your computer.

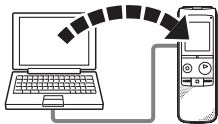
 **To copy a message or a folder (Drag and drop)**



- 1** Click and hold,
- 2** drag,
- 3** and then drop.

- 3** Disconnect the IC recorder from your computer (page 61).

# Copying MP3 Files from Your Computer to the IC Recorder



You can copy MP3 files from your computer to the IC recorder by dragging and dropping them, and you can then play them back on the IC recorder.

- 1** Connect the IC recorder to your computer (page 60).
- 2** Copy the MP3 files to the IC recorder.  
On the Windows screen using Explorer, and on the Macintosh screen using Finder, drag and drop the files into one of the folders from A to E located under the “VOICE” folder that is in the “IC\_RECORDER” folder on your computer.  
You can copy up to 99 files to one folder.

- 3** Disconnect the IC recorder from your computer (page 61).



# Using the Supplied Digital Voice Editor Software

## What you can do using the Digital Voice Editor software

The Digital Voice Editor software allows you to transfer messages that you have recorded using the IC recorder to your computer. You can save them on your computer, play them back, and edit them. You can also transfer music files saved on your computer to the IC recorder. For details on using the Digital Voice Editor software, refer to the help files.

### Transferring messages recorded on the IC recorder to your computer

You can save messages that you have recorded using the IC recorder on your computer's hard disk, by message, by folder, or all messages at one time. You can select a format to be used to save those messages as follows; MSV (LPEC) files, MSV (ADPCM) files, MP3 files, Windows standard WAV files.

### Playing back messages on the computer

You can play back messages on the computer using the following functions, one-message repeat playback, A-B Repeat playback, easy search as well as normal playback. You can also adjust the playback speed.

### Transferring messages saved on your computer to the IC recorder to play

You can transfer messages saved on your computer, as well as other files, such as voice files sent by e-mail, MSV (LPEC/ADPCM) files, WAV files, MP3 files, WMA files, by file or by folder, to the IC recorder. You can also play them back using the IC recorder.

### Editing messages saved on your computer or IC recorder using your computer

You can change message titles or user names, sort messages, set/delete priority marks or bookmarks, divide/combine

messages, etc., on your computer, depending on the format of the file. You can change the order of the messages in the IC recorder using the computer. You can also save messages saved on your computer by converting the voice format to a more appropriate one.

## Creating your own original audio or data CDs

Using the CD Burning Tool for the Digital Voice Editor, you can make your original music CD or data CD from files recorded using the IC recorder, or from files saved on your computer's hard disk using the Digital Voice Editor.

## Other convenient uses

- You can send voice e-mail messages using MAPI e-mail software.
- You can transcribe your IC recorder messages using Dragon NaturallySpeaking® speech-recognition software (Only when Dragon NaturallySpeaking version 5.0 (or higher) Preferred or Professional Edition is installed on your computer).
- You can set/cancel the user name of the IC recorder, changing alarm settings, etc., on your computer.

- Using the CD Recording Tool for the Digital Voice Editor, you can play tracks of a CD in the computer's CD drive, and save CD tracks onto the computer's hard disk in a file format that the Digital Voice Editor supports. Saved files can then be transferred to an IC recorder using the Digital Voice Editor.

Use of the CD Recording Tool for DVE and/or the CD Burning Tool for DVE is limited to the personal purposes.

### Note

For information on using Dragon NaturallySpeaking, please refer to the documentation supplied with the software.

## System requirements

To use the supplied software, your computer must meet the operating system requirements and hardware environment described below.

### Operating systems:

- Windows® 7 Ultimate
- Windows® 7 Professional
- Windows® 7 Home Premium
- Windows® 7 Home Basic
- Windows® 7 Starter
- Windows Vista® Ultimate Service Pack 1 or higher
- Windows Vista® Business Service Pack 1 or higher
- Windows Vista® Home Premium Service Pack 1 or higher
- Windows Vista® Home Basic Service Pack 1 or higher
- Windows® XP Media Center Edition 2005 Service Pack 3 or higher
- Windows® XP Media Center Edition 2004 Service Pack 3 or higher (excluding China)
- Windows® XP Media Center Edition Service Pack 3 or higher (excluding China)
- Windows® XP Professional Service Pack 3 or higher

- Windows® XP Home Edition Service Pack 3 or higher
  - Windows® 2000 Professional Service Pack 4 or higher
- Pre-Installed

### ■ Notes

- Operation is not guaranteed if any operating system other than those indicated on the left (Windows® 98 or Linux, etc.) is used.
- 64 bit versions of Windows® XP are not supported.
- For the latest version information and compatibility with your operating system, please access the support home page for the IC recorder:  
U.S.A.:  
<http://www.sony.com/recordersupport>  
Canada:  
<http://www.sony.ca/ElectronicsSupport/>  
<http://fr.sony.ca/ElectronicsSupport/>  
Latin American areas:  
<http://www.sony-latin.com/index.crp>  
China and Korea:  
<http://www.sony-asia.com/support>

### Hardware environment:

- Computer: IBM PC/AT or compatible
- CPU: 1 GHz Pentium® III processor or higher (for Windows® 7), 800 MHz Pentium® III processor or higher (for Windows Vista®), 266 MHz Pentium® II

processor or higher (for Windows® XP or Windows® 2000)

- RAM: 1 GB or more (for Windows® 7 (32 bit version)), 2 GB or more (for Windows® 7 (64 bit version)), 512 MB or more (for Windows Vista®), 128 MB or more (for Windows® XP or Windows® 2000)
- Hard disk space: 300 MB or more
- CD-ROM drive (When creating an audio CD or data CD, a CD-R/RW drive is needed)
- Port: USB port
- Sound board: Sound cards compatible with any of the supported Microsoft® Windows® operating systems
- Display: High color (16 bit) or more and 800 × 480 dots or more
- Internet access for Voice Mail function and CD database service

#### **Note**

The following systems are not supported:

- Operating systems other than the ones indicated on page 67
- Personally constructed computers or operating systems
- Upgraded operating systems
- Multi-boot environment
- Multi-monitor environment

#### **Note on transcribing a message**

When you use Dragon NaturallySpeaking® speech-recognition software to transcribe a message, your computer must also meet the system requirements that the Dragon NaturallySpeaking requires.

#### **Note on sending a voice e-mail**

When you use Microsoft® Outlook Express 5.5/6.0/7.0, Microsoft® Outlook 2000/2002/2003/2007, or Microsoft® Windows Mail to send a voice e-mail of a message, your computer must also meet the system requirements that the Outlook Express, Outlook or Windows Mail requires.

## **Installing the software**

Install the Digital Voice Editor software on your computer's hard disk.

#### **Notes**

- 64 bit versions of Windows® XP are not supported.
- While installing the software do not connect or disconnect the USB connecting cable. The software may not be installed properly.
- When installing or uninstalling the software, log on as a user name with the “Computer administrator” user account. (To find if the user name has a “Computer administrator” user account, open the “User Accounts”

from the “Control Panel” and refer to the section beneath the user name being displayed.)

- When installing or uninstalling the software in Windows® 2000 Professional, make sure to log on Windows as the user name of “Administrator.”
- After installing, the Microsoft DirectX module is also installed depending on the operation system of your computer. This module is not deleted after uninstalling the software.
- Be sure to close all running programs before installing the Digital Voice Editor software.
- After installing the Digital Voice Editor software, do not install the “Memory Stick Voice Editor 1.0/1.1/1.2/2.0” software. The Digital Voice Editor will not work properly. (Using the IC recorder, you can save or edit the messages in the “Memory Stick”.)
- When the “Memory Stick Voice Editor 1.0/1.1/1.2/2.0” software has already been installed, installing the supplied software will automatically remove the “Memory Stick Voice Editor” software. (Messages are not removed.)

- 1** Make sure that the IC recorder is not connected, then turn on your computer and start up Windows.
- 2** Insert the supplied CD-ROM into the CD-ROM drive.

The [IC Recorder Software Setup] menu starts up automatically and the [Welcome to IC Recorder Software Setup] window appears. If the [Welcome to IC Recorder Software Setup] menu does not start up, open the [DVE] folder in the [Setup] folder on the CD-ROM, then double click [setup.exe].

- 3** Make sure that you accept the terms of the license agreement, select [I accept the terms of the license agreement], then click [Next].  
The [Software Install] window appears.

- 4** Select [Digital Voice Editor], then click [Install].  
Follow the instructions on the screen to make the settings required for installation.

**If you have already installed a previous version of the Digital Voice Editor or any version of the “Memory Stick Voice Editor”**

The dialog box used to uninstall a previous version of the Digital Voice Editor or any version of the “Memory Stick Voice Editor” will be displayed. Follow the instructions on the screen to

uninstall the software. The message files are not removed.

### **Note**

If any illegal data modification is attempted, or a file is used for other than private purposes, the file may become unplayable or the Digital Voice Editor may become inoperable.

### **When the dialog box used to select how to save files is displayed**

When you save files recorded using the IC recorder onto the computer named above, you can select whether you wish to convert them into the MP3 format. Select the desired setting.

### **When the dialog box used to select an ICD-P series is displayed**

Select [Yes] to edit messages recorded using ICD-P series.

- 5** When the [Ready to Install the Program] window appears, click [Install]. The installation starts.

- 6** When the [InstallShield Wizard Complete] window appears, select [Yes, I want to restart my computer now], then click [Finish].

The computer will be restarted.

When the computer has been restarted, installation is completed.

## **Uninstalling the software**

When you wish to uninstall the software, follow the steps below.

### **For Windows 2000 or Windows XP**

- 1** Click [Start] and select [Settings], [Control Panel], then [Add or Remove Programs] or [Add/Remove Applications].
- 2** Select [Digital Voice Editor 3] from the list and click [Remove] or [Change/Remove].
- 3** Follow the instructions on the screen.

### **For Windows Vista or Windows 7**

- 1** Click [Start] – [Control Panel] – [Programs], then select and click [Uninstall a Program] from the category.
- 2** Select [Digital Voice Editor 3] from the list and click [Uninstall].

**3** Click [Continue] in the [User Account control] window.

**4** Follow the instructions on the screen.

### **Note**

If you wish to move the software to another drive or directory after it is installed, you must uninstall the software first, then re-install it. The software does not work properly if you just move the software files.

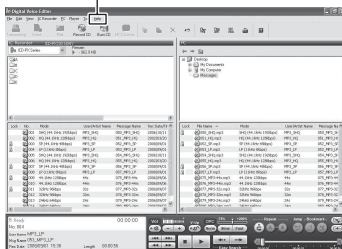
### **Tip**

Uninstallation does not remove the message files.

## Referring to the help files

For details on each operation, refer to the help files.

### Help



# Using the IC Recorder as USB Memory – Data Storage Function

When the IC recorder is connected to your computer using a USB connecting cable, image data or text data on the computer, as well as messages or files recorded using the IC recorder can be temporarily stored in the IC recorder.

Your computer must meet the specified system requirements to use the IC recorder as USB memory.

For details on the system requirements, see page 77.

**1** Connect the IC recorder to your computer using the supplied USB connecting cable (page 60).

On the Windows screen; open “My Computer” and make sure that “IC\_RECORDER” has been recognized. On the Macintosh screen; make sure that an “IC\_RECORDER” drive is displayed on the desk top.

**2** Copy the folder of the data files to be stored to the IC recorder by dragging and dropping.

On the Windows screen using Explorer, and on the Macintosh screen using Finder, drag and drop the folder onto the IC recorder.

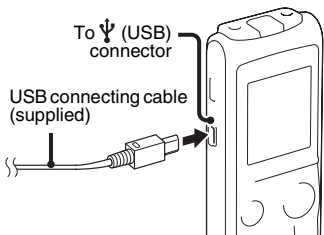
The IC recorder does not recognize the folders transferred from your computer.

## **Note**

To disconnect the IC recorder from your computer, refer to page 61.



# Using a USB AC Adaptor (not supplied)



You can connect the IC recorder to an AC outlet using an AC-U50AD (U.S.A. and Canada only), an AC-U50A (Latin America and Korea only) or an AC-NWUM50 (China only) USB AC adaptor (not supplied).

It is useful when you want to record for a long time.

### **Note**

Your dealer may not handle some of the optional accessories. Please ask the dealer for detailed information.

- 1 Connect the supplied USB connecting cable to the ψ (USB) connector of the IC recorder.

- 2 Connect a USB AC adaptor (not supplied) to the USB connecting cable.
- 3 Connect the USB AC adaptor (not supplied) to an AC outlet.

## Disconnecting the IC recorder from the AC outlet

Follow the procedures below; otherwise, when the IC recorder contains data files, the files may be damaged or become unplayable.

- 1 If you are recording or playing back a message, press ■ (stop) to put the IC recorder into the stop mode.
- 2 Make sure that the operation indicator is not flashing.
- 3 Disconnect the USB connecting cable from the USB AC adaptor, and then disconnect the USB AC adaptor from the AC outlet.

## Notes

- During recording (the operation indicator lights or flashes in red) or accessing data (the operation indicator flashes in orange),
  - the IC recorder should not be connected to or disconnected from the USB AC adaptor connected to the AC outlet.
  - the USB AC adaptor connected to the IC recorder should not be connected to or disconnected from the AC outlet.

Doing so may damage the data. If the IC recorder is required to process a large amount of data, the start-up window may be displayed for an extended period of time. This is not a malfunction of the IC recorder. Wait until the start-up display disappears from the display window.

- While a USB AC adaptor (not supplied) is being used, the remaining battery indicator does not appear in the display window.

# Precautions

## On power

Operate the unit only on 3.0 V or 2.4 V DC. Use two LR03 (size AAA) alkaline batteries or two NH-AAA rechargeable batteries.

## On safety

Do not operate the unit while driving, cycling or operating any motorized vehicle.

## On handling

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further.
- Be careful not to allow water to splash on the unit. The unit is not water-proof. In particular, be careful in the following situations.
  - When you have the unit in your pocket and go to the bathroom, etc.  
When you bend down, the unit may drop into the water and may get wet.

- When you use the unit in an environment where the unit is exposed to rain, snow, or humidity.
- In circumstances where you get sweaty. If you touch the unit with wet hands or if you put the unit in the pocket of sweaty clothes, the unit may get wet.
- You may feel pain in your ears if you use the headphones when the ambient air is very dry. This is not because of a malfunction of the headphones, but because of static electricity accumulated in your body. You can reduce static electricity by wearing non-synthetic clothes that prevent the emergence of static electricity.

## On noise

- Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.
- Noise may be recorded when an object, such as your finger, etc., rubs or scratches the unit during recording.

## **On maintenance**

To clean the exterior, use a soft cloth slightly moistened in water. Do not use alcohol, benzine or thinner.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

### **Backup recommendations**

To avoid potential risk of data loss caused by accidental operation or malfunction of the IC recorder, we recommend that you save a backup copy of your recorded messages on a tape recorder or to a computer, etc.

# Specifications

## System requirements for your computer

### To use your computer with the Digital Voice Editor software

To use your computer with the Digital Voice Editor software, see “System requirements” on page 67.

### To use your computer without the Digital Voice Editor software

To use your computer with the IC recorder without the Digital Voice Editor software, or to use the IC recorder as a USB mass storage device, your computer must meet the operating system requirements and port environment described below.

#### Operating systems:

- Windows® 7 Ultimate
- Windows® 7 Professional
- Windows® 7 Home Premium
- Windows® 7 Home Basic
- Windows® 7 Starter
- Windows Vista® Ultimate Service Pack 1 or higher
- Windows Vista® Business Service Pack 1 or higher

- Windows Vista® Home Premium Service Pack 1 or higher
- Windows Vista® Home Basic Service Pack 1 or higher
- Windows® XP Media Center Edition 2005 Service Pack 3 or higher
- Windows® XP Media Center Edition 2004 Service Pack 3 or higher (excluding China)
- Windows® XP Media Center Edition Service Pack 3 or higher (excluding China)
- Windows® XP Professional Service Pack 3 or higher
- Windows® XP Home Edition Service Pack 3 or higher
- Windows® 2000 Professional Service Pack 4 or higher
- Mac OS X (v10.2.8-v10.6)  
Pre-Installed

### When you are using Windows® 2000 Professional

Install the driver in the Application Software, Digital Voice Editor (CD-ROM).

## ■ Notes

- Operation is not guaranteed if any operating system other than those indicated on the left (Windows® 98 or Linux, etc.) is used.
- 64 bit versions of Windows® XP are not supported.
- For the latest version information and compatibility with your operating system, please access the support home page for the IC recorder:

U.S.A.:

<http://www.sony.com/recordersupport>

Canada:

<http://www.sony.ca/ElectronicsSupport/>

<http://fr.sony.ca/ElectronicsSupport/>

Latin American areas:

<http://www.sony-latin.com/index.crp>

China and Korea:

<http://www.sony-asia.com/support>

## Hardware environment:

- Port: USB port
- Sound board: Sound cards compatible with any of the supported Microsoft® Windows® operating systems

## ■ Note

The following systems are not supported:

- Operating systems other than the ones indicated on page 77
- Personally constructed computers or operating systems
- Upgraded operating systems
- Multi-boot environment
- Multi-monitor environment

## Design and specifications

### IC recorder section

#### Capacity (User available capacity)

2 GB (approx. 1.8 GB = 1,929,622,016 Byte)

A part of the memory capacity is used as a management area.

#### Frequency range

- SHQ: 75 Hz - 20,000 Hz
- HQ: 75 Hz - 17,000 Hz
- SP: 75 Hz - 15,000 Hz
- LP: 80 Hz - 3,500 Hz

#### Bit rate and sampling frequencies for MP3 files\*1

- SHQ: 44.1 kHz, 192 kbps stereo
- HQ: 44.1 kHz, 128 kbps stereo
- SP: 44.1 kHz, 48 kbps mono
- LP: 11.025 kHz, 8 kbps mono

Bit rate: 32 kbps - 320 kbps, VBR

Sampling frequencies:

16/22.05/24/32/44.1/48 kHz

\*1 The playback of MP3 files recorded using the IC recorder is also supported. Not all encoders are supported.

### General

#### Speaker

Approx. 28 mm (1 1/8 in.) dia.

## Input/Output

- Microphone jack (minijack, stereo)
  - input for plug in power, minimum input level 0.5 mV, 3 kilohms or lower impedance microphone
- Headphone jack (minijack, stereo)
  - output for 8 ohms - 300 ohms headphones
- USB connector
  - High-Speed USB compatible

## Playback speed control (DPC)

+100% to -50%

## Power output

300 mW

## Power requirements

Two LR03 (size AAA) alkaline batteries

(supplied): 3.0 V DC

Two NH-AAA rechargeable batteries (not supplied): 2.4 V DC

## Operating temperature

5°C - 35°C (41°F - 95°F)

## Dimensions (w/h/d) (not incl. projecting parts and controls) (JEITA)\*2

37 mm × 111 mm × 21.2 mm  
(1 1/2 in. × 4 3/8 in. × 27/32 in.)

## Mass (JEITA)\*2

Approx. 71 g (2 1/2 oz) including LR03 (size AAA) alkaline batteries

\*2 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)

## Supplied accessories

See page 7.

## Optional accessories

Active speaker SRS-M50

Electret condenser microphone ECM-CZ10, ECM-DS70P, ECM-DS30P (U.S.A., Canada, Latin America and Korea only), ECM-DM5P, ECM-Z60 (U.S.A. only), ECM-CS10, ECM-TL1

Audio connecting cable (excluding China)

RK-G136, RK-G139

Rechargeable battery NH-AAA-B2K (U.S.A., Canada, Latin America and Korea only), NH-AAA-B2E (China only)

USB AC adaptor AC-U50AD (U.S.A. and Canada only), AC-U50A (Latin America and Korea only), AC-NWUM50 (China only)

Battery charger BCG-34HS2KA (U.S.A., Canada and Korea only), BCG-34HLD22K (Latin America only), BCG-34HS2A (China only)

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

## Maximum recording time\*3\*4

The maximum recording time of all the folders is as follows.

SHQ mode	HQ mode	SP mode	LP mode
22 hr. 15 min.	33 hr. 25 min.	89 hr. 15 min.	535 hr. 55 min.

(hr.: hours/min.: minutes)

\*3 When you are going to record continuously for a long time, you may have to replace the batteries with new ones in the midst of recording. For details on the battery life, see page 80.

\*4 The maximum recording time varies if you record messages in mixed recording mode.

## Battery life\*1

### When using Sony LR03 (SG) (size AAA) alkaline batteries (with continuous use)

Recording mode	SHQ*3	HQ*4	SP*5	LP*6
Recording	Approx. 30 hr.	Approx. 30 hr.	Approx. 35 hr.	Approx. 48 hr.
Playback*2 through speaker	Approx. 12 hr.	Approx. 12 hr.	Approx. 12 hr.	Approx. 12 hr.
Playback using the headphones	Approx. 36 hr.	Approx. 36 hr.	Approx. 36 hr.	Approx. 36 hr.

(hr.: hours)



## When using Sony NH-AAA rechargeable batteries (with continuous use)

Recording mode	SHQ*3	HQ*4	SP*5	LP*6
Recording	Approx. 20 hr.	Approx. 20 hr.	Approx. 25 hr.	Approx. 35 hr.
Playback*2 through speaker	Approx. 10 hr.	Approx. 10 hr.	Approx. 10 hr.	Approx. 10 hr.
Playback using the headphones	Approx. 25 hr.	Approx. 25 hr.	Approx. 25 hr.	Approx. 25 hr.

(hr.: hours)

\*1 The battery life is measured in testing using methods proprietary to Sony. The battery life may shorten depending on how you operate the IC recorder.

\*2 When playing back music through the internal speaker with the volume level set to 27

\*3 SHQ: Super high-quality monaural recording mode

\*4 HQ: High-quality monaural recording mode

\*5 SP: Standard play monaural recording mode

\*6 LP: Long play monaural recording mode




# Troubleshooting


Before taking the IC recorder for repair, check the following sections. Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Please note that recorded messages may be erased during service or repair work.

## IC recorder

Symptom	Remedy
The IC recorder cannot be turned off.	<ul style="list-style-type: none"><li>Slide the HOLD switch in the direction of the arrow when the IC recorder is stopped (page 11).</li></ul>
The IC recorder cannot be turned on.	<ul style="list-style-type: none"><li>The HOLD switch is set. Slide the HOLD switch in the direction opposite that of the arrow (page 11).</li></ul>
Display does not disappear. Display appears blurred.	<ul style="list-style-type: none"><li>Remove the protective film on the display window before you use the IC recorder.</li></ul>
The IC recorder does not operate.	<ul style="list-style-type: none"><li>The batteries have been inserted with incorrect polarity (page 9).</li><li>The batteries are weak (page 10).</li><li>The power to the IC recorder is off. Slide the HOLD switch in the direction opposite that of the arrow (page 11).</li><li>The HOLD function is activated. Slide the HOLD switch in the direction opposite that of the arrow (page 14).</li><li>You may have formatted the memory of the IC recorder using the computer. Use the IC recorder formatting function to format the memory (page 58).</li></ul>
No sound comes from the speaker.	<ul style="list-style-type: none"><li>The volume is turned down completely (page 18).</li><li>Headphones are plugged in (page 35).</li></ul>
Sound comes from the speaker even when the headphones are plugged in.	<ul style="list-style-type: none"><li>If you plug in the headphones not securely during playback, the sound may come from the speaker. Unplug the headphones, and then insert them securely.</li></ul>

Symptom	Remedy
The operation indicator does not light.	<ul style="list-style-type: none"><li>• “LED” is set to “OFF.” Display the menu and set “LED” to “ON” (page 57).</li></ul>
“FULL” is displayed and you cannot start recording.	<ul style="list-style-type: none"><li>• The memory is full. Erase some of the messages (page 20) or erase all the messages after you store them on your computer.</li></ul>
“FULL” is displayed and you cannot operate the IC recorder.	<ul style="list-style-type: none"><li>• 99 messages have been recorded in the selected folder or 495 messages (when there are 5 folders) in total have been recorded. Therefore you cannot record another message, or move a message. Erase some of the messages (page 20) or erase all the messages after you store them on your computer.</li></ul>
Recording is interrupted.	<ul style="list-style-type: none"><li>• The VOR function is activated. Set “VOR” to “OFF” in the menu (page 24).</li></ul>
Noise is heard.	<ul style="list-style-type: none"><li>• An object, such as your finger, etc., accidentally rubbed or scratched the IC recorder during recording so that noise was recorded.</li><li>• The IC recorder was placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.</li><li>• Plug of the connected microphone was dirty when recording. Clean the plug.</li><li>• The  (headphones) plug is dirty. Clean the plug.</li></ul>
Recording level is low.	<ul style="list-style-type: none"><li>• “SENS” (microphone sensitivity) is set to “L.” Display the menu and set “SENS” to “H” (page 23).</li></ul>

<b>Symptom</b>	<b>Remedy</b>
You cannot divide a message.	<ul style="list-style-type: none"> <li>• You need a certain amount of free space in the memory to divide a message.</li> <li>• If 99 messages have been recorded in a folder, you cannot divide a message in that folder. 99 messages have been recorded in the selected folder. Erase some of the messages (page 20) or erase all the messages after you store them on your computer.</li> <li>• You may not be able to divide a message at the beginning or at the end of the message because of system limitations.</li> <li>• If you divide a message frequently, the unit may become unable to divide the message further.</li> </ul>
When recording from other equipment, the input level is too strong or not strong enough.	<ul style="list-style-type: none"> <li>• Connect the headphone jack of other equipment to the  (microphone) jack of the IC recorder and adjust the volume level on the piece of equipment connected to the IC recorder.</li> </ul>
Playback speed is too fast or too slow.	<ul style="list-style-type: none"> <li>• The playback speed is adjusted in DPC. Adjust the speed in DPC again in the menu (page 36).</li> </ul>
“--:--” is displayed.	<ul style="list-style-type: none"> <li>• You have not set the clock (page 12).</li> </ul>
“--Y--M--D” or “--:--” is displayed on the REC DATE display.	<ul style="list-style-type: none"> <li>• The date of recording will not be displayed if you recorded the message when the clock was not set.</li> </ul>
There are fewer menu items displayed in the menu mode.	<ul style="list-style-type: none"> <li>• The menu items displayed are different depending on the operation modes (stop mode, playback mode and recording mode) (page 52).</li> </ul>
The remaining time displayed in the display window is shorter than that displayed in the supplied Digital Voice Editor software.	<ul style="list-style-type: none"> <li>• The IC recorder requires a certain amount of memory for system operation. That amount is subtracted from the remaining time, which is the reason for the difference.</li> </ul>

<b>Symptom</b>	<b>Remedy</b>
The battery life is short.	<ul style="list-style-type: none"><li>• The battery life on page 80 is based on playback with the volume level set to 27. The battery life may shorten depending on the operation of the IC recorder.</li></ul>
There is no battery power remaining after you have left the batteries inserted for long time without using the IC recorder.	<ul style="list-style-type: none"><li>• Even if you do not use the IC recorder, the batteries are consumed slightly. The battery life in this case varies depending on humidity or other environmental conditions. Usually, the batteries last about 2 months. If you do not intend to use the IC recorder for an extended period of time, it is recommended that you turn the power off (page 11) or remove the batteries.</li></ul>
The changed menu setting does not function.	<ul style="list-style-type: none"><li>• If the batteries are removed just after the menu setting is changed, the menu setting may not function.</li></ul>
It takes a long time for the IC recorder to start.	<ul style="list-style-type: none"><li>• If the IC recorder is required to process a large amount of data, it may take longer for the IC recorder to start. This is not a malfunction of the IC recorder. Wait until the start-up display disappears.</li></ul>
The IC recorder does not operate correctly.	<ul style="list-style-type: none"><li>• Take out the batteries and insert them again (page 9).</li></ul>
The IC recorder is not recognized by your computer. A folder/file cannot be transferred from your computer.	<ul style="list-style-type: none"><li>• Disconnect the IC recorder from your computer and reconnect it.</li><li>• Do not use a USB hub or USB extension cable other than the supplied USB connecting cable. Connect the IC recorder using the supplied USB connecting cable.</li><li>• Operation is not guaranteed if you use any system requirements other than those described on page 77.</li><li>• Depending on the USB port position, the IC recorder may not be recognized. If this happens, try another port.</li></ul>
The file transferred from your computer cannot be played back.	<ul style="list-style-type: none"><li>• The file format may differ from those that can be played back using the IC recorder (MP3).</li></ul>

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**Symptom****Remedy**

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The computer cannot start.

- If you reboot the computer with the unit connected to the computer, the computer may freeze or may not start properly. Disconnect the unit from the computer and reboot the computer again.
-

## Digital Voice Editor





Refer to the Help files of the Digital Voice Editor software, too.

Symptom	Remedy
The Digital Voice Editor software cannot be installed.	<ul style="list-style-type: none"> <li>• The free disk or memory space on the computer is too small. Check the hard disk and memory space.</li> <li>• You are trying to install the software into the operating system that the Digital Voice Editor software does not support.</li> <li>• You log on as a user name belonging to a user account with limitations. Make sure to log on as a user name with the “Computer administrator” user account.</li> <li>• In Windows® 2000 Professional, make sure to log on as the user name of “Administrator.”</li> </ul>
The IC recorder or “Memory Stick” cannot be properly connected.	<ul style="list-style-type: none"> <li>• Check that the installation of the software has been successful. Also check the connection as follows:                             <ul style="list-style-type: none"> <li>– When using an external USB hub, connect the IC recorder directly to the computer.</li> <li>– Disconnect and then connect the cable with the IC recorder.</li> <li>– Connect the IC recorder to another USB connector.</li> </ul> </li> <li>• Your computer may be in the system standby/hibernate mode. Do not let your computer enter into the system standby/hibernate mode while being connected to the IC recorder.</li> </ul>
Messages cannot be played back./Playback sound volume is too low.	<ul style="list-style-type: none"> <li>• No sound board is installed.</li> <li>• No speaker is built-in or connected to the computer.</li> <li>• The volume of the sound is turned down.</li> <li>• Turn up the volume on the computer. (Refer to the instruction manual of the computer.)</li> <li>• The volume of WAV files can be changed and saved using the “Increase Volume” feature of the Microsoft Sound Recorder.</li> </ul>
Saved message files cannot be played back or edited.	<ul style="list-style-type: none"> <li>• You cannot play back a message whose file format the Digital Voice Editor software does not support. Depending on the file format, you cannot use part of editorial features of the software.</li> </ul>

<b>Symptom</b>	<b>Remedy</b>
Counter or slider moves incorrectly. There is noise.	<ul style="list-style-type: none"> <li>• This happens when you play back messages that you divided, combined, overwrote, or added a recording. Save a message in the hard disk first, and then add it to the IC recorder. Select the saving file format that suits the IC recorder you use.</li> </ul>
Operation is slow when there are many messages.	<ul style="list-style-type: none"> <li>• When the total number of messages increases, the operation becomes slower, regardless of the length of the recording time.</li> </ul>
Display does not work during saving, adding, or deleting of messages.	<ul style="list-style-type: none"> <li>• It takes a longer time to copy or delete long messages. After completing operations, the display works normally.</li> </ul>
It takes too long to convert a file format.	<ul style="list-style-type: none"> <li>• The time required for file conversion becomes longer as the file size is bigger.</li> </ul>
The software 'hangs' when the Digital Voice Editor software starts up.	<ul style="list-style-type: none"> <li>• Do not disconnect the connector of the IC recorder while the computer is communicating with the IC recorder. Otherwise the computer operations become unstable or the data inside the IC recorder may be damaged.</li> <li>• There may be conflict between the software and other driver or application.</li> <li>• Do not install the "Memory Stick Voice Editor" software and the Digital Voice Editor Ver. 2x software after you installed the Digital Voice Editor software. The Digital Voice Editor may not operate properly.</li> </ul>



# Error Messages

Error message	Cause/Remedy
LO BATT (  flashes at the same time)	<ul style="list-style-type: none"><li>Batteries are exhausted. Replace the old batteries with new ones.</li></ul>
ERR FORMAT	<ul style="list-style-type: none"><li>The IC recorder cannot be turned on using the computer because there is no copy of the control file required for operation. Format the IC recorder using the formatting function in the menu.</li></ul>
FULL (  flashes at the same time)	<ul style="list-style-type: none"><li>The remaining memory capacity of the IC recorder is insufficient. Erase some messages before recording.</li></ul>
FULL (  and “99” flash at the same time)	<ul style="list-style-type: none"><li>When there are already 99 messages in the current folder, the message currently being recorded cannot be divided automatically when it reaches the maximum size limit. Erase some messages before recording.</li></ul>
SET DATE	<ul style="list-style-type: none"><li>Set the clock; otherwise, you cannot set the alarm.</li></ul>
FULL (“99” flashes at the same time)	<ul style="list-style-type: none"><li>As there are already 99 messages in the current folder, you cannot record a new message. Erase some messages before recording.</li></ul>
FULL (folder indicator flashes at the same time)	<ul style="list-style-type: none"><li>As there are already 99 messages in the folder to which you want to move a message, you cannot move the message. Erase some messages before moving.</li></ul>
NO DATA	<ul style="list-style-type: none"><li>The selected folder does not have any messages. You cannot move a message or set the alarm, etc., because of this.</li></ul>
ERR DATA	<ul style="list-style-type: none"><li>You cannot play or edit messages, because the data of the selected file is damaged.</li></ul>
LO BATT (  flashes at the same time)	<ul style="list-style-type: none"><li>You cannot format the memory or erase all the files in a folder because of insufficient battery power. Prepare new batteries to replace the current ones.</li></ul>

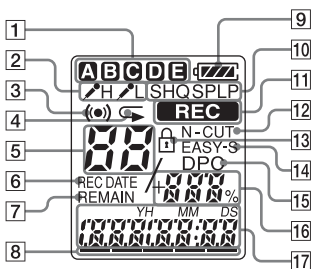
<b>Error message</b>	<b>Cause/Remedy</b>
PRE SET	<ul style="list-style-type: none"> <li>You set the alarm to play back a message at a date and time previously set on another message. Change the alarm setting.</li> </ul>
BACK-D	<ul style="list-style-type: none"> <li>You set the alarm when the time has already passed. Check it and set the appropriate date and time.</li> </ul>
LOCK (🔒) flashes at the same time)	<ul style="list-style-type: none"> <li>You selected a message that has been locked. You cannot move it, erase it, add a new message to it, add an overwritten message to it, or divide it. Set “LOCK” to “OFF” in the menu before editing the message.</li> </ul>
NO SUPPORT	<ul style="list-style-type: none"> <li>This data is not in a file format that is supported by the IC recorder. The IC recorder supports MP3 files (.mp3). See “Design and specifications” on page 78.</li> <li>You cannot play back copyright protected files.</li> </ul>
NO EDIT	<ul style="list-style-type: none"> <li>The selected message is not the one that was recorded using the IC recorder. You cannot divide it, add a recording to it, or overwrite it, etc.</li> <li>You cannot add a recording or overwrite a recording because the message to which you want to add a recording or overwrite a recording is over the maximum size limit.</li> </ul>
NO MOVE (folder indicator flashes at the same time)	<ul style="list-style-type: none"> <li>You cannot move a message, because there is more than one folder that has files with same name. Change the file names.</li> </ul>
OFF REC-OP	<ul style="list-style-type: none"> <li>You cannot add a recording or overwrite a recording because “REC-OP” is set to “OFF.” Set it to “ON.”</li> </ul>
NEW (message number flashes at the same time)	<ul style="list-style-type: none"> <li>The maximum recording message/music file size is 500 MB. When the recording message/music file size exceeds the maximum size limit, exceeded recording is recorded as a new message.</li> </ul>
ERR ACCESS ERR 01 - ERR 06	<ul style="list-style-type: none"> <li>A system error other than the above has occurred. Remove the batteries and re-insert them (page 9).</li> </ul>

# System Limitations

There are some system limitations of the IC recorder. Troubles as mentioned below are not malfunctions of the IC recorder.

Symptom	Cause/Remedy
You cannot record messages up to the maximum recording time.	<ul style="list-style-type: none"><li>• If you record messages in a mixture of SHQ, HQ, SP and LP modes, the recordable time varies from the maximum SHQ mode recording time to the maximum LP mode recording time.</li><li>• The sum of the number on the counter (elapsed recording time) and the remaining recording time may be less than the IC recorder's maximum recording time.</li></ul>
You cannot display or play back music files in order.	<ul style="list-style-type: none"><li>• If you have transferred music files using your computer, those files may not be copied in order of transfer because of system limitations. If you copy music files from your computer to the IC recorder one by one, you can display and play back the music files in copied order.</li></ul>
A message/music file is automatically divided.	<ul style="list-style-type: none"><li>• The message/music file has reached the maximum size limit (approx. 500 MB), therefore it is automatically divided.</li></ul>
You cannot specify the finishing point B.	<ul style="list-style-type: none"><li>• You cannot specify the finishing point B before the starting point A that has been set.</li></ul>
When you set A-B Repeat playback, the set positions move a little.	<ul style="list-style-type: none"><li>• Depending on the files, the set positions may move.</li></ul>
The file name of the message may be changed, for example, it may be shortened.	<ul style="list-style-type: none"><li>• If you edit a message using the IC recorder (moving a message, etc.), the file name may be changed, for example, it may be shortened, due to system limitations. Change the file name by using the computer again.</li></ul>

# Display Window Guide



- 1** Folder indicator  
Displays the folder (**A**, **B**, **C**, **D**, or **E**) you have selected.
- 2** Microphone sensitivity  
Displays the microphone sensitivity.  
H (high): To record at a meeting or in a quiet/spacious place.  
L (low): To record for dictation or in a noisy place.
- 3** Alarm indicator  
Appears when the alarm is set for a message.
- 4** Repeat play indicator  
Appears when a message is played back repeatedly.

- 5** Selected message number
- 6** REC DATE (recorded date) indicator  
The recorded date or time is displayed with the REC DATE indicator.
- 7** REMAIN indicator  
When the IC recorder is in the recording or stop mode, the remaining recording time is displayed with the REMAIN indicator, or when the IC recorder is in the playback mode, the remaining time of the current message is displayed with the REMAIN indicator.
- 8** Remaining memory indicator  
Displays the remaining memory and decreases one by one during recording.
- 9** Battery indicator  
Displays the remaining battery power.
- 10** Recording mode indicator  
Displays the recording mode set using the menu when the IC recorder is in the recording or stop mode, and displays the current recording mode when the IC recorder is in the playback mode.  
SHQ: Super high-quality monaural recording mode

HQ: High-quality monaural recording mode

SP: Standard play monaural recording mode

LP: Long play monaural recording mode

- 11 **REC** (recording) indicator  
Appears while the IC recorder is recording.
- 12 N-CUT (noise cut) indicator  
Appears when “N-CUT” is set to “ON” in the menu.
- 13 LOCK indicator  
Appears when “LOCK” is set to “ON” in the menu.
- 14 EASY-S (easy search) indicator  
Appears when the “EASY-S” is set to “ON” in the menu.
- 15 DPC (Digital Pitch Control) indicator  
Appears when the “DPC” is set to “ON” in the menu.
- 16 Total number of messages in the folder/  
DPC setting
- 17 Elapsed time/Remaining time/Recorded  
or Recording date and time indication/  
Message

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